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SS Rosen - US Patent 5,799,087, 1998 - Google Patents

... Feb. 20. 1984, at 4. Nakamoto, Japanese Take To The TopThe Prepaid Plastic Card

**Business.** ... J20 NETWORK SIGN-ON ROUTE MESSAGE DIRECT TO BANK SERVICES ...

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RJ Glushko, JM Tenenbaum, B Meltzer - Communications of the ACM, 1999 - portal.acm.org

... system processing the purchase order as a complete **message**; • An enterprise ... actions result are strictly up to the **business** providing the **service**. ...

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#### [System and method for controlled media conversion in an intelligent network](#)

G Sumar, BA Svennesson, RJB Schmersel - US Patent 5,838,768, 1998 - Google Patents

... Invoke (Send **Message**) CONTINUE Return Result CONTINUE (empty) END ... the number of

competitors in the **business**. ... innovations like call -back **services** and calling ...

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#### [Business-to-business e-commerce frameworks - all 4 versions »](#)

SSY Shim, VS Pendyala, M Sundaram, JZ Gao - Computer, 2000 - ieeexplore.ieee.org

... **Business** document support Authentication **Message** handling ... (a) **Business** 1 Networks

Businesses **Services** Interactions Documents Information items ...

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#### [Interoperation support for electronic business - all 4 versions »](#)

J Yang, MP Papazoglou - Communications of the ACM, 2000 - portal.acm.org

... of a **message** cannot falsely deny sending a **message**. ... processes, leveraging legacy assets, support for **business** transactions, and network security **services**. ...

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#### [AUTONOMOUS AGENTS FOR BUSINESS PROCESS MANAGEMENT - all 18 versions »](#)

NR JENNINGS - Applied Artificial Intelligence, 2000 - Taylor & Francis

... speci es the role of the current **message** interchange ... be sure they are describing the same **service** even though ... In many **business** process applications there is a ...

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#### [System and method for transmission of communication signals through different media - all 2 versions »](#)

NA Albal - US Patent 5,826,034, 1998 - Google Patents

... instructions in such a situation, and that allows the sender to query the status of the **messages** sent. ... **Business/Accounting Services** provides Page 12. ...

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[The SI challenge in health care - all 4 versions »](#)

J Grimson, W Grimson, W Hasselbring - Communications of the ACM, 2000 - portal.acm.org  
... PeopleSoft are offered together with **message** queuing **services** ... transaction monitoring and publish/subscribe notification **services**. ... by means of SAP's **Business API** ...

[Cited by 78](#) - [Related Articles](#) - [Web Search](#) - [BL Direct](#)

[Alternate \*\*service\*\* activation - all 3 versions »](#)

RD Farris, J Carman, W Tolson - US Patent 5,761,290, 1998 - Google Patents  
... subscribed to by each individual **business** customer ... the SSP includes, among other data,

a "**Service Key**" which ... **message** response format including routing information ...

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[Two approaches to bringing Internet services to WAP devices - all 6 versions »](#)

E Kaasinen, M Aaltonen, J Kolari, S Melakoski, T ... - Computer Networks, 2000 - Elsevier  
... Many of the error **messages** seem to be caused by imperfect or faulty HTML code. ... All the test users considered the **Business Card Search Service** useful. ...

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## Business-to-business e-commerce frameworks

Shim, S.S.Y. Pendyala, V.S. Sundaram, M. Gao, J.Z.

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ISSN: 0018-9162

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## Abstract

Electronic commerce lets people purchase goods and exchange information on business. Although the Internet's role as a business channel is a fairly recent phenomenon, its impact otherwise, has been substantially greater than that of other business channels which have existed for several decades. The authors believe that e-commerce gives companies improved efficiency of business processes through transaction automation. There are two major types of e-commerce: consumer (B2C), in which consumers purchase products and services from businesses; and business (B2B), in which businesses buy and sell among themselves. B2B transactions are a significant part of the e-commerce market. This article analyzes and compares popular B2B frameworks and address such issues as interoperability and security between enterprises transacting business.

## Index Terms

## Inspec

## Controlled Indexing

[Internet](#) [business communication](#) [electronic commerce](#) [open systems](#) [secure telecommunication security](#) [transaction processing](#)

## Non-controlled Indexing

[Internet](#) [business processes](#) [business transaction automation](#) [business-to-business](#) [electronic commerce frameworks](#) [efficiency](#) [information exchange](#) [interoperability](#) [purchasing](#) [reliability](#) [security](#)

## Author Keywords

Not Available

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- 2 U. Ogbuji, "XML: The Future of EDI?" Feb. 1999; <http://www.sunworld.com>.
- 3 World Wide Web Consortium, *Extensible Markup Language (XML) 1.0 Specification*, Recommendation REC-xml-19980210, Feb. 1998; <http://www.w3.org/TR/REC-xml>.
- 4 R. Karpinski, "Procurement Vendors Tussle Over XML," *Internet Week*, 9 Feb. 1999; <http://internetwk.com/news0299/news020999-6.htm>.  
[Buy Via Ask\*IEEE]
- 5 Open Buying on the Internet, OBI Specification, 1999; <http://www.openbuy.org>.
- 6 CommerceNet *The eCo Specification*, Sept. 1999; <http://eco.commerce.net/specs/ind>


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 SSY Shim, VS Pendyala, M Sundaram, JZ Gao - Computer, 2000 - [ieeexplore.ieee.org](#)

 ... **Message** handling ... 1999; <http://ecommerce.internet.com/>

outlook/article/0,1467,7761\_124921 ...

 His research interests include **e-commerce** systems, Internet com- puting ...

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[EDI—The Grand Daddy of Electronic Commerce - all 5 versions »](#)

M Unitt, IC Jones - BT Technology Journal, 1999 - Springer

 ... An EDI **message** is then created from the data and passed to their existing EDI

 processing system. ... 3 BT **eCommerce** portfolio — <http://www.e-commerce.bt.com> ...

 Cited by 8 - [Related Articles](#) - [Web Search](#) - [BL Direct](#)
[Business-to-business e-commerce with open buying on the Internet - all 7 versions »](#)

 Z Tian, LY Liu, J Li, JY Chung - Advance Issues of E-Commerce and Web-Based Information ..., 1999 - [ieeexplore.ieee.org](#)

 ... It already provides many of the services required for B2B **e-Commerce**. ... both P0's and POR's) **conversion**, which also include OBI/EDI **message** encoding and ...

 Cited by 9 - [Related Articles](#) - [Web Search](#)
[Gathering Middleware Requirements - all 5 versions »](#)

 A Liu - Proceedings of the Australian Requirements Engineering ..., 2000 - [doi.ieeeecs.org](#)

 ... However, in order to build an enterprise wide **e-commerce** system that can ... in simple logic statements rather than code - **message translation**, formatting, support ...

 Cited by 4 - [Related Articles](#) - [Web Search](#)
[XML schema design for business-to-business e-commerce - all 2 versions »](#)

 AT Gregory - Proceedings of XML EUROPE'00, 2000 - [infoloom.com](#)

 ... different types of transactions, from **translation** of catalog ... make demands on our "standard" **message** structures. ... of the great promises of **e-commerce** portals is ...

 Cited by 2 - [Related Articles](#) - [Cached](#) - [Web Search](#)
[A framework for a logistics e-commerce community network: the HongKong air cargo industry - all 3 versions »](#)

LC Leung, W Cheung, Y Van Hai - Systems, Man and Cybernetics, Part A, IEEE

 Transactions on, 2000 - [ieeexplore.ieee.org](#)

 ... To facilitate **e-commerce** com- munications among members, many standard **messages** ...

 Automatic acknowledgment, **message** protocol **conversion**, and encryption ...

 Cited by 15 - [Related Articles](#) - [Web Search](#) - [BL Direct](#)
[Opportunities in E-Commerce: Advertising and Commerce in a Virtual Enterprise - all 2 versions »](#)

 VE Skoularidou, KI Tzelepis - BRITISH TELECOMMUNICATIONS ENGINEERING, 1998 - [istlab.dmst.aueb.gr](#)

 ... tool to the various sub-components of the **e-commerce** platform, legacy systems ...

between

Internet and legacy systems; for example, HTTP **message translation** to bar ...

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### XML e-business standards: Promises and pitfalls

R Worden - 2000 - xml.com

... In the era of **e-commerce**, the winners will be those ... are proposing public repositories of XML **message** definitions ... so as to ease the N-squared **translation** problem ...

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### [PS] Architectural Design Patterns for Multiagent Coordination - all 8 versions »

S Hayden, C Carrick, Q Yang - Proceedings of the International Conference on Agent Systems, 1999 - cs.sfu.ca

... agent domains, such as an **e-commerce** agent, information ... may then submit **messages** to the embassy for **translation**. The content of the **message** is translated in ...

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### Collaborative Virtual Environment for Industrial Training and e-Commerce - all 4 versions »

JC Oliveira, X Shen, ND Georganas - IEEE VRTS 2000, 2000 - Incc.br

... prototype, while section 3 focuses on the **e-Commerce** one. ... Incoming **messages** are sent

to the Java core via ... to Java3D code using VRML to Java3D **conversion** tools. ...

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